

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for fabricating a hologram diffuser which comprises:

providing a substrate;

forming a resin layer on the substrate;

forming a hologram pattern in the resin layer to uniformly diffuse light in all orientations by pressing an original hologram pattern into the resin layer; and

forming a smoothing film on the patterned resin layer, wherein the smoothing layer smoothes a surface of the hologram pattern and activates light beam diffusion at the hologram pattern.

2. (Original) The method of claim 1, which further comprises:

forming color filters or thin film transistors at an upper portion of the smoothing layer.

3. (Currently Amended) The method of claim 1, wherein forming the hologram pattern includes:

locating an original hologram plate at an upper portion of the resin layer;

~~pressing to form a hologram pattern in the resin layer;~~

hardening the resin; and

removing the original hologram plate.

4. (Original) The method of claim 3, wherein the resin layer is made from a thermal hardening resin, and further including the step of curing the resin layer by applying heat.

5. (Original) The method according to claim 3, wherein the resin layer is made from an ultraviolet hardening resin, and further including the step of curing the resin layer by applying ultraviolet light.

6. (Original) The method of claim 1, wherein the resin layer has a thickness of 0.5 to 10 μ m.

7. (Original) The method of claim 1, wherein the resin layer is formed using spin coating, knife coating or extrusion coating.

8. (Original) The method of claim 1, wherein the smoothing layer has a thickness of 0.1 to 5 μ m.

9. (Original) The method of claim 1, wherein the smoothing layer has a refractive index difference of greater than 0.1 compared to the refractive index of the resin layer.

10. (Currently Amended) A liquid crystal display employing a hologram diffuser which comprises:

a lower polarizer,

a lower substrate arranged at an upper portion of the lower polarizer,

switching devices arranged in a matrix on the substrate;

a liquid crystal layer provided at an upper portion of the lower substrate;

a hologram layer arranged over an upper portion of the liquid crystal layer to uniformly diffuse light in all orientations to attain a wide visual angle;

a smoothing film having a different index of a refraction from the hologram layer, the smoothing film being provided at the lower portion of the hologram layer, wherein the smoothing layer smoothes a surface of the hologram layer and activates light beam diffusion at the hologram layer;

an upper substrate arranged at the upper portion of the

smoothing film; and

an upper polarizer arranged at the surface of the upper substrate.

11. (Original) The liquid crystal display of claim 10, wherein a refractive index difference between the hologram layer and the smoothing layer is greater than 0.1.

12. (Original) The liquid crystal display of claim 10, wherein the hologram layer has a thickness of 0.5 to 10 μ m.

13. (Original) The liquid crystal display of claim 10, wherein the smoothing layer has a thickness of 0.1 to 5 μ m.

14. (Original) The liquid crystal display of claim 10, wherein the hologram layer comprises a resin selected from a thermal hardening resin and an ultraviolet hardening resin.

15. (Original) The liquid crystal display of claim 10, wherein the liquid crystal display is a twisted nematic liquid crystal display.

16. (Original) The liquid crystal display of claim 10, wherein the upper polarizer and the lower polarizer are crossed perpendicular to each other.

17. (Original) The liquid crystal display of claim 10, further comprising a color filter layer between the liquid crystal layer and the hologram layer.

18. (Original) The liquid crystal display of claim 10, further comprising thin film transistors between the liquid crystal layer and the hologram layer.

19. (Original) The liquid crystal display of claim 10, wherein a shape of the hologram layer pattern controls a range of visual angle.

20. (Canceled)

21. (Currently Amended) The liquid crystal display of claim [[20]] 10, wherein the smoothing layer promotes the diffusion of light at the hologram layer.

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22. (Previously Presented) The liquid crystal display of claim 10, further comprising a back light unit disposed below the lower polarizer.